



249862

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March 31, 2014

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Garrett A. Stone, Esquire
Brickfield, Burchette, Ritts, & Stone, P.C.
1025 Thomas Jefferson Street, NW
8th Floor, West Tower
Washington, D.C. 20007

Re: SCPSC Docket No. 2014-1-E

Dear Garrett:

Pursuant to the December 21, 1998 agreement entered into by and between Duke Energy Progress, Inc. ("DEP") and Nucor Steel in Docket No. 1999-029-E, enclosed is documentation required by paragraph 1 of that agreement regarding DEP's actual system nuclear capacity factor calculation. As you can see, DEP met the 92.5% goal.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian J. Franklin".

Brian Franklin

Enclosure

cc: Jocelyn Boyd (w/enc.)
Jeffrey M. Nelson (w/enc.)
Nanette Edwards (w/enc.)

Report to
NUCOR STEEL CORPORATION

Of

Duke Energy Progress
Nuclear System Capacity Factor

Pursuant to
SCPSC Docket 1999-029-E

Test Period
March 1, 2013
Through
February 28, 2014

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**Duke Energy Progress Nuclear Capacity Factor Calculation
(Unadjusted)
March 1, 2013 – February 28, 2014**

**Net Electrical Generation during the Test Period March 1, 2013 to February 28, 2014
Reported to the NRC and available in the NRC's Public Documents Collection**

	MWhs
Brunswick Unit 1	8,077,959
Brunswick Unit 2	6,361,306
Harris Unit 1	6,786,249
Robinson Unit 2	5,675,767
A – Total Net Generation	26,901,281

**Unit Maximum Dependable Capacity (MW)
Reported to the NRC and available in the NRC's Public Documents Collection**

	MDC (MW)
Brunswick Unit 1	938
Brunswick Unit 2	932
Harris Unit 1	928
Robinson Unit 2	741
B – Max Dependable Capacity	3,539

Period Hours in the Test Period March 1, 2013 to February 28, 2014

C – Period Hours from 3/1/13 to 2/28/14	8,760
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Capacity Factor Formula

$$[(A) / (B \times C)] = 86.8\%$$

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**Duke Energy Progress Nuclear Capacity Factor Calculation
Adjusted for Refueling Outages Only and Steam Generator Replacement
Outages of 100 Days or Less
March 1, 2013 – February 28, 2014**

**Net Electrical Generation during the Test Period March 1, 2013 to February 28, 2014
Reported to the NRC and available in the NRC's Public Documents Collection**

	MWHS
Brunswick Unit 1	8,077,959
Brunswick Unit 2	6,361,306
Harris Unit 1	6,786,249
Robinson Unit 2	5,675,767
Total Net Generation	26,901,281

Reasonable refueling outages and steam generator replacement outages of 100 days or less

	MWh Losses
Brunswick Unit 1 *	2,936
Brunswick Unit 2	1,502,254
Harris Unit 1	725,327
Robinson Unit 2	938,749
Total	3,169,266

A – Total Test Period Net Generation + Adjustment for refueling outages & steam generator replacement outages	30,070,547
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* Brunswick Unit 1 spring 2014 refueling outage began February 28, 2014, and was in progress as of the end of the February 28, 2014 test period. Refueling MWh losses shown here include losses during the March 2013 – February 2014 test period.

Unit Maximum Dependable Capacity (MW)
Reported to the NRC and available in the NRC's Public Documents Collection

	MDC (MW)
Brunswick Unit 1	938
Brunswick Unit 2	932
Harris Unit 1	928
Robinson Unit 2	741
B – Max Dependable Capacity	3,539

Period Hours in the Test Period March 1, 2013 to February 28, 2014

C – Period Hours from 3/1/13 to 2/28/14	8,760
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Capacity Factor Formula

$$[(A) / (B \times C)] = 97.0\%$$

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor $\geq 92.5\%$ during the 12 month period under review. For the test period March 1, 2013 through February 28, 2014, actual period to date performance is summarized below.

Period to Date: March 1, 2013 through February 28, 2014

Nuclear System Capacity Factor Calculation (Based on net generation)

- | | |
|--|--------------------|
| A. Nuclear system actual generation for SCPSC test period | A = 26,901,281 MWH |
| B. Total number of hours during SCPSC test period | B = 8,760 hours |
| C. Nuclear system MDC during SCPSC test period (see page 2) | C = 3,539 MW |
| D. Reasonable nuclear system reductions (see page 2) | D = 4,683,239 MWH |
| E. SC Fuel Case nuclear system capacity factor: [A / ((B*C) – D)] = 102.21% | |

NOTE:

If Line Item E $\geq 92.5\%$, presumption of utility's minimum cost operation
If Line Item E < 92.5%, utility has burden of proof of reasonable operations

Amended SC Fuel Rule
 Nuclear System Capacity Factor Calculation
 Reasonable Nuclear System Reductions
Period to Date: March 1, 2013 to February 28, 2014

Nuclear Unit Name and Designation	BNP Unit #1	BNP Unit #2	HNP Unit #1	HNP Unit #2	RNP Unit #1	RNP Unit #2	Nuclear System
Unit MDC	938 MW	932 MW	928 MW	928 MW	741 MW	741 MW	3,539 MW
Reasonable refueling outage time (MWh)	2,936.00	1,502,254.00	725,327.00		938,749.00		
Reasonable maintenance, repair, and equipment replacement outage time (MWh)	283,354.00	175,545.00	678,147.00		69,381.00		
Reasonable coast down power reductions (MWh)	776.00	5,031.00	0.00		0.00		
Reasonable power ascension power reductions (MWh)	14,074.00	109,265.00	50,751.00		35,740.00		
Prudent NRC required testing outages (MWh)	11,383.00	34,219.00	5,906.00		40,401.00		
SCPSC identified outages not directly under utility control (MWh)	0.00	0.00	0.00		0.00		
Acts of Nature reductions (MWh)	0.00	0.00	0.00		0.00		
Reasonable nuclear reduction due to low system load (MWh)	0.00	0.00	0.00		0.00		
Unit total excluded MWh	312,523.00	1,826,314.00	1,460,131.00		1,084,271.00		
Total reasonable outage time exclusions [carry to Page 1, Line D]							4,683,239.00

ATTACHMENT A

Recorded Generation and Capacity Factors (Test Period March 1, 2013 - February 28, 2014)

MONTHLY NET GENERATION (UNADJUSTED)						
Month	BNP 1	BNP 2	BNP Station	HNP	RNP	Duke Progress Nuclear Fleet
March 2013	718,769	30,806	749,575	692,542	588,968	2,031,085
April 2013	695,638	-3,771	691,867	683,333	533,120	1,908,320
May 2013	429,975	440,857	870,832	324,651	577,147	1,772,630
June 2013	682,848	671,785	1,354,633	512,112	547,683	2,414,428
July 2013	700,370	687,194	1,387,564	696,829	562,215	2,646,608
August 2013	706,728	591,407	1,298,135	645,140	562,450	2,505,725
September 2013	677,673	672,595	1,350,268	656,853	231,715	2,238,836
October 2013	717,338	684,997	1,402,335	708,893	-1,857	2,109,371
November 2013	680,587	680,117	1,360,704	175,051	401,543	1,937,298
December 2013	720,822	640,432	1,361,254	438,208	593,006	2,392,468
January 2014	718,543	694,591	1,413,134	606,998	542,167	2,562,299
February 2014	628,668	570,296	1,198,964	645,639	537,610	2,382,213
2013-2014 Test Period	8,077,959	6,361,306	14,439,265	6,786,249	5,675,767	26,901,281

MONTHLY CAPACITY FACTOR (UNADJUSTED)						
Month	BNP 1	BNP 2	BNP Station	HNP	RNP	Duke Progress Nuclear Fleet
MDC - March to December 2013	938	932	1,870	928	741	3,539
MDC - January to February 2014	938	932	1,870	928	741	3,539
March 2013	103.1%	4.4%	53.9%	100.4%	107.0%	77.2%
April 2013	103.0%	-0.6%	51.4%	102.3%	99.9%	74.9%
May 2013	61.6%	63.6%	62.6%	47.0%	104.7%	67.3%
June 2013	101.1%	100.1%	100.6%	76.6%	102.7%	94.8%
July 2013	100.4%	99.1%	99.7%	100.9%	102.0%	100.5%
August 2013	101.3%	85.3%	93.3%	93.4%	102.0%	95.2%
September 2013	100.3%	100.2%	100.3%	98.3%	43.4%	87.9%
October 2013	102.8%	98.8%	100.8%	102.7%	-0.3%	80.1%
November 2013	100.6%	101.2%	100.9%	26.2%	75.2%	75.9%
December 2013	103.3%	92.4%	97.8%	63.5%	107.6%	90.9%
January 2014	103.0%	100.2%	101.6%	87.9%	98.3%	97.3%
February 2014	99.7%	91.1%	95.4%	103.5%	108.0%	100.2%
2013-2014 Test Period	98.3%	77.9%	88.1%	83.5%	87.4%	86.8%

YEAR-TO-DATE GENERATION (UNADJUSTED)						
Month	BNP 1	BNP 2	BNP Station	HNP	RNP	Duke Progress Nuclear Fleet
March 2013	718,769	30,806	749,575	692,542	588,968	2,031,085
April 2013	1,414,407	27,035	1,441,442	1,375,875	1,122,088	3,939,405
May 2013	1,844,382	467,892	2,312,274	1,700,526	1,699,235	5,712,035
June 2013	2,527,230	1,139,677	3,666,907	2,212,638	2,246,918	8,126,463
July 2013	3,227,600	1,826,871	5,054,471	2,909,467	2,809,133	10,773,071
August 2013	3,934,328	2,418,278	6,352,606	3,554,607	3,371,583	13,278,796
September 2013	4,612,001	3,090,873	7,702,874	4,211,460	3,603,298	15,517,632
October 2013	5,329,339	3,775,870	9,105,209	4,920,353	3,601,441	17,627,003
November 2013	6,009,926	4,455,987	10,465,913	5,095,404	4,002,984	19,564,301
December 2013	6,730,748	5,096,419	11,827,167	5,533,612	4,595,990	21,956,769
January 2014	7,449,291	5,791,010	13,240,301	6,140,610	5,138,157	24,519,068
February 2014	8,077,959	6,361,306	14,439,265	6,786,249	5,675,767	26,901,281

YEAR-TO-DATE CAPACITY FACTOR (UNADJUSTED)						
Month	BNP 1	BNP 2	BNP Station	HNP	RNP	Duke Progress Nuclear Fleet
March 2013	103.1%	4.4%	53.9%	100.4%	107.0%	77.2%
April 2013	103.1%	2.0%	52.7%	101.3%	103.5%	76.1%
May 2013	89.1%	22.7%	56.0%	83.0%	103.9%	73.1%
June 2013	92.0%	41.8%	67.0%	81.5%	103.6%	78.5%
July 2013	93.7%	53.4%	73.6%	85.4%	103.3%	82.9%
August 2013	95.0%	58.8%	76.9%	86.8%	103.1%	85.0%
September 2013	95.8%	64.6%	80.2%	88.4%	94.7%	85.4%
October 2013	96.6%	68.9%	82.8%	90.2%	82.7%	84.7%
November 2013	97.1%	72.4%	84.8%	83.2%	81.9%	83.8%
December 2013	97.7%	74.5%	86.1%	81.2%	84.5%	84.5%
January 2014	98.2%	76.8%	87.5%	81.8%	85.7%	85.7%
February 2014	98.3%	77.9%	88.1%	83.5%	87.4%	86.8%

ATTACHMENT B

Brunswick Unit 1 March 1, 2013 – February 28, 2014 Test Period MWh Losses by Cause

	Refuel	Repairs	Coastdowns	Power Ascension	Testing	SCPSC	Acts of Nature	Low Load	Total
Mar-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May-13	0.00	265,885.00	0.00	9,032.00	0.00	0.00	0.00	0.00	274,917.00
Jun-13	0.00	2,410.00	0.00	0.00	0.00	0.00	0.00	0.00	2,410.00
Jul-13	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
Aug-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep-13	0.00	8,876.00	0.00	0.00	0.00	0.00	0.00	0.00	8,876.00
Oct-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov-13	0.00	4,819.00	0.00	0.00	11,383.00	0.00	0.00	0.00	16,202.00
Dec-13	0.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00	366.00
Jan-14	0.00	838.00	0.00	0.00	0.00	0.00	0.00	0.00	838.00
Feb-14	2,936.00	0.00	776.00	5,042.00	0.00	0.00	0.00	0.00	8,754.00
Test Period Total	2,936.00	283,354.00	776.00	14,074.00	11,383.00	0.00	0.00	0.00	312,523.00

Brunswick Unit 2 March 1, 2013 – February 28, 2014 Test Period MWh Losses by Cause

	Refuel	Repairs	Coastdowns	Power Ascension	Testing	SCPSC	Acts of Nature	Low Load	Total
Mar-13	650,611.00	0.00	5,031.00	0.00	0.00	0.00	0.00	0.00	655,642.00
Apr-13	671,040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671,040.00
May-13	180,603.00	9,249.00	0.00	62,452.00	0.00	0.00	0.00	0.00	252,304.00
Jun-13	0.00	5.00	0.00	0.00	11.00	0.00	0.00	0.00	16.00
Jul-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-13	0.00	75,554.00	0.00	9,274.00	15,670.00	0.00	0.00	0.00	100,498.00
Sep-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct-13	0.00	2,866.00	0.00	0.00	11,105.00	0.00	0.00	0.00	13,971.00
Nov-13	0.00	852.00	0.00	0.00	0.00	0.00	0.00	0.00	852.00
Dec-13	0.00	44,758.00	0.00	14,070.00	1,373.00	0.00	0.00	0.00	60,201.00
Jan-14	0.00	88.00	0.00	380.00	6,060.00	0.00	0.00	0.00	6,528.00
Feb-14	0.00	42,173.00	0.00	23,089.00	0.00	0.00	0.00	0.00	65,262.00
Test Period Total	1,502,254.00	175,545.00	5,031.00	109,265.00	34,219.00	0.00	0.00	0.00	1,826,314.00

Harris Unit 1 March 1, 2013 – February 28, 2014 Test Period MWh Losses by Cause

	Refuel	Repairs	Coastdowns	Power Ascension	Testing	SCPSC	Acts of Nature	Low Load	Total
Mar-13	0.00	17,579.00	0.00	0.00	0.00	0.00	0.00	0.00	17,579.00
Apr-13	0.00	1,552.00	0.00	0.00	0.00	0.00	0.00	0.00	1,552.00
May-13	0.00	358,397.00	0.00	0.00	5,906.00	0.00	0.00	0.00	364,303.00
Jun-13	0.00	150,754.00	0.00	6,150.00	0.00	0.00	0.00	0.00	156,904.00
Jul-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-13	0.00	49,561.00	0.00	0.00	0.00	0.00	0.00	0.00	49,561.00
Sep-13	0.00	12,725.00	0.00	8,749.00	0.00	0.00	0.00	0.00	21,474.00
Oct-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov-13	492,046.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	492,046.00
Dec-13	233,281.00	0.00	0.00	24,509.00	0.00	0.00	0.00	0.00	257,790.00
Jan-14	0.00	87,579.00	0.00	11,343.00	0.00	0.00	0.00	0.00	98,922.00
Feb-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Test Period Total	725,327.00	678,147.00	0.00	50,751.00	5,906.00	0.00	0.00	0.00	1,460,131.00

Robinson Unit 2 March 1, 2013 – February 28, 2014 Test Period MWh Losses by Cause

	Refuel	Repairs	Coastdowns	Power Ascension	Testing	SCPSC	Acts of Nature	Low Load	Total
Mar-13	0.00	716.00	0.00	0.00	0.00	0.00	0.00	0.00	716.00
Apr-13	0.00	28,868.00	0.00	0.00	0.00	0.00	0.00	0.00	28,868.00
May-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep-13	302,297.00	0.00	0.00	0.00	1,202.00	0.00	0.00	0.00	303,499.00
Oct-13	551,304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	551,304.00
Nov-13	85,148.00	39,797.00	0.00	28,040.00	0.00	0.00	0.00	0.00	152,985.00
Dec-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan-14	0.00	0.00	0.00	7,700.00	39,199.00	0.00	0.00	0.00	46,899.00
Feb-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Test Period Total	938,749.00	69,381.00	0.00	35,740.00	40,401.00	0.00	0.00	0.00	1,084,271.00

DEP Nuclear System Total March 1, 2013 – February 28, 2014 Test Period MWh Losses by Cause

	Refuel	Repairs	Coastdowns	Power Ascension	Testing	SCPSC	Acts of Nature	Low Load	Total
Mar-13	650,611.00	18,295.00	5,031.00	0.00	0.00	0.00	0.00	0.00	673,937.00
Apr-13	671,040.00	30,420.00	0.00	0.00	0.00	0.00	0.00	0.00	701,460.00
May-13	180,603.00	633,531.00	0.00	71,484.00	5,906.00	0.00	0.00	0.00	891,524.00
Jun-13	0.00	153,169.00	0.00	6,150.00	11.00	0.00	0.00	0.00	159,330.00
Jul-13	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
Aug-13	0.00	125,115.00	0.00	9,274.00	15,670.00	0.00	0.00	0.00	150,059.00
Sep-13	302,297.00	21,601.00	0.00	8,749.00	1,202.00	0.00	0.00	0.00	333,849.00
Oct-13	551,304.00	2,866.00	0.00	0.00	11,105.00	0.00	0.00	0.00	565,275.00
Nov-13	577,194.00	45,468.00	0.00	28,040.00	11,383.00	0.00	0.00	0.00	662,085.00
Dec-13	233,281.00	45,124.00	0.00	38,579.00	1,373.00	0.00	0.00	0.00	318,357.00
Jan-14	0.00	88,505.00	0.00	19,423.00	45,259.00	0.00	0.00	0.00	153,187.00
Feb-14	2,936.00	42,173.00	776.00	28,131.00	0.00	0.00	0.00	0.00	74,016.00
Test Period Total	3,169,266.00	1,206,427.00	5,807.00	209,830.00	91,909.00	0.00	0.00	0.00	4,683,239.00